

Amendments to the Specification:

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Please replace paragraph number 4 with the following:

This purpose is achieved by means of a sensor device according to ~~claims 1 or 2~~ the present invention. Such a sensor device comprises i sensor elements of a first type which are interconnected in a circuitry $(n \times m)$ matrix array with n row conductors and m column conductors, where i , n and m are natural numbers other than zero, and where $1 \leq i \leq n * m$. It should be noted that a matrix array of this kind constitutes a circuitry arrangement. This means that a matrix array in a real arrangement does not require that the sensor elements be arranged in a regular grid layout, nor does it require that the individual connecting conductors run in straight lines parallel or perpendicular to one another. Each of the i sensor elements is connected between one row conductor and one column conductor.